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#8 Search epo AND (asthma or allergic or inflammation)		20:18:08	<u>256</u>
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#1 Search epor antagonist		13:15:28	<u>7</u>

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Feb 10 2005 12:03:04

FILE 'HOME' ENTERED AT 12:11:04 ON 17 FEB 2005

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 12:11:08 ON 17 FEB 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 FEB 2005 HIGHEST RN 831913-30-5

DICTIONARY FILE UPDATES: 15 FEB 2005 HIGHEST RN 831913-30-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

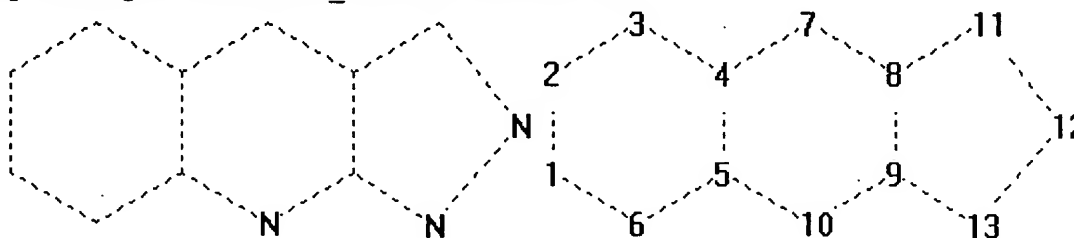
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading H:\DOCS\STN\_search\10613754.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13

ring bonds :

1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-10 7-8 8-9 8-11 9-10 9-13 11-12 12-13

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-10 7-8 8-9 8-11 9-10 9-13 11-12 12-13

isolated ring systems :

containing 1 :

G1:O,S,NH,H,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

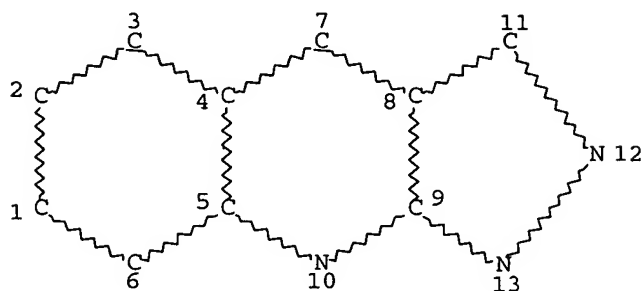
11:Atom 12:Atom 13:Atom

L1 STRUCTURE UPLOADED

=> dis

L1 HAS NO ANSWERS

L1 STR



NODE ATTRIBUTES:

NSPEC	IS R	AT	1
NSPEC	IS R	AT	2
NSPEC	IS R	AT	3
NSPEC	IS R	AT	4
NSPEC	IS R	AT	5
NSPEC	IS R	AT	6
NSPEC	IS R	AT	7
NSPEC	IS R	AT	8
NSPEC	IS R	AT	9
NSPEC	IS R	AT	10
NSPEC	IS R	AT	11
NSPEC	IS R	AT	12
NSPEC	IS R	AT	13

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

=> s l1 sam

SAMPLE SEARCH INITIATED 12:11:37 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 546 TO ITERATE

100.0% PROCESSED 546 ITERATIONS

50 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 9519 TO 12321

PROJECTED ANSWERS: 2301 TO 3779

L2 50 SEA SSS SAM L1

=> s l1 ful

FULL SEARCH INITIATED 12:11:41 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 9642 TO ITERATE

100.0% PROCESSED 9642 ITERATIONS  
SEARCH TIME: 00.00.01

2760 ANSWERS

L3 2760 SEA SSS FUL L1

=> file hcaplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

161.33

161.54

FILE 'HCAPLUS' ENTERED AT 12:11:46 ON 17 FEB 2005

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FILE COVERS 1907 - 17 Feb 2005 VOL 142 ISS 8

FILE LAST UPDATED: 16 Feb 2005 (20050216/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4 215 L3

=> 14 and (epor or (erythropoietin (w) receptor))

435 EPOR

25 EPORS

435 EPOR

(EPOR OR EPORS)

11254 ERYTHROPOIETIN

520 ERYTHROPOIETINS

11284 ERYTHROPOIETIN

(ERYTHROPOIETIN OR ERYTHROPOIETINS)

589379 RECEPTOR

540726 RECEPTORS

701702 RECEPTOR

(RECEPTOR OR RECEPTORS)

1257 ERYTHROPOIETIN (W) RECEPTOR

L5 1 L4 AND (EPOR OR (ERYTHROPOIETIN (W) RECEPTOR))

=> 14 and (epo or erythropoietin)

5599 EPO

131 EPOS

5703 EPO

(EPO OR EPOS)

11254 ERYTHROPOIETIN

520 ERYTHROPOIETINS

## 11284 ERYTHROPOIETIN

(ERYTHROPOIETIN OR ERYTHROPOIETINS)

L6 1 L4 AND (EPO OR ERYTHROPOIETIN)

=&gt; 15 and 16

L7 1 L5 AND L6

=&gt; d 17 ibib

L7 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:41501 HCAPLUS Full-text

DOCUMENT NUMBER: 140:87744

TITLE: Affinity small molecules for the EPO  
receptor

INVENTOR(S): Olsson, Lennart; Naranda, Tatjana

PATENT ASSIGNEE(S): Receptron, Inc., USA

SOURCE: PCT Int. Appl., 85 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004005323	A2	20040115	WO 2003-US21394	20030703
WO 2004005323	A3	20040701		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2004171541	A1	20040902	US 2003-613754	20030702
US 2004116346	A1	20040617	US 2003-612885	20030703
PRIORITY APPLN. INFO.:			US 2002-393360P	P 20020703
			US 2002-393361P	P 20020703
			US 2002-394110P	P 20020703
OTHER SOURCE(S):	MARPAT 140:87744			

=&gt; d his

(FILE 'HOME' ENTERED AT 12:11:04 ON 17 FEB 2005)

FILE 'REGISTRY' ENTERED AT 12:11:08 ON 17 FEB 2005

L1 STRUCTURE UPLOADED

L2 50 S L1 SAM

L3 2760 S L1 FUL

FILE 'HCAPLUS' ENTERED AT 12:11:46 ON 17 FEB 2005

L4 215 S L3

L5 1 L4 AND (EPOR OR (ERYTHROPOIETIN (W) RECEPTOR))

L6 1 L4 AND (EPO OR ERYTHROPOIETIN)

L7 1 L5 AND L6

```
=> l4 and (epo (w) r)
      5599 EPO
      131 EPOS
      5703 EPO
      (EPO OR EPOS)
1176738 R
      200 EPO (W) R
L8      1 L4 AND (EPO (W) R)

=> l8 and l7
L9      1 L8 AND L7

=> l4 and cytokine
      81695 CYTOKINE
      120406 CYTOKINES
      151857 CYTOKINE
      (CYTOKINE OR CYTOKINES)
L10     0 L4 AND CYTOKINE
```

```
=> l4 and erb
      1047 ERB
      28 ERBS
      1075 ERB
      (ERB OR ERBS)
L11     0 L4 AND ERB
```

```
=> l4 and ebp
      3659 EBP
      218 EBPS
      3708 EBP
      (EBP OR EBPS)
L12     0 L4 AND EBP
```

```
=> index biosci medicine
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS
```

	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	30.50	192.04

```
INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,
BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB,
CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 12:18:46 ON 17 FEB 2005
```

78 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view  
search error messages that display as 0\* with SET DETAIL OFF.

```
=> e diazolohehexahydroquinoline
E1      1      DIAZOLODISELENADIAZOCINE/BI
E2      2      DIAZOLODOTOLUENESULPHONIC/BI
E3      3 --> DIAZOLOHEXAHYDROQUINOLINE/BI
E4      2      DIAZOLOHEXAHYDROQUINOLINES/BI
E5      1      DIAZOLOIMIDAZOLOBENZOTHIADIAZOLONES/BI
E6      2      DIAZOLOISOQUINOLINES/BI
E7      1      DIAZOLON/BI
E8      32     DIAZOLONE/BI
E9      9      DIAZOLONES/BI
E10     2      DIAZOLONGIBORNANE/BI
```

E11 2 DIAZOLONGIBORNANES/BI  
E12 1 DIAZOLONIC/BI

<-----User Break----->

=> s e3

1 FILE IFIPAT  
51 FILES SEARCHED...  
2 FILE USPATFULL  
68 FILES SEARCHED...

2 FILES HAVE ONE OR MORE ANSWERS, 78 FILES SEARCHED IN STNINDEX

L13 QUE DIAZOLOHEXAHYDROQUINOLINE/BI

=> d rank

F1 2 USPATFULL  
F2 1 IFIPAT

=> file f1 f2

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.77	193.81

FILE 'USPATFULL' ENTERED AT 12:20:28 ON 17 FEB 2005  
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FILE 'IFIPAT' ENTERED AT 12:20:28 ON 17 FEB 2005  
COPYRIGHT (C) 2005 IFI CLAIMS(R) Patent Services (IFI)

=> s l13

L14 3 L13

=> d l14 1-3 ibib

L14 ANSWER 1 OF 3 USPATFULL on STN

ACCESSION NUMBER: 2004:221770 USPATFULL Full-text  
TITLE: Affinity small molecules for the EPO receptor  
INVENTOR(S): Olsson, Lennart, Orinda, CA, UNITED STATES  
Naranda, Tatjana, Mountain View, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004171541	A1	20040902
APPLICATION INFO.:	US 2003-613754	A1	20030702 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-393361P	20020703 (60)
	US 2002-393360P	20020703 (60)
	US 2002-394110P	20020703 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: LUMEN INTELLECTUAL PROPERTY SERVICES, INC., 2345 YALE STREET, 2ND FLOOR, PALO ALTO, CA, 94306  
NUMBER OF CLAIMS: 32  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 17 Drawing Page(s)  
LINE COUNT: 2046

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 2 OF 3 USPATFULL on STN

ACCESSION NUMBER: 2004:152124 USPATFULL Full-text  
TITLE: Affinity small molecules for the EPO receptor  
INVENTOR(S): Olsson, Lennart, Orinda, CA, UNITED STATES  
Naranda, Tatjana, Mountain View, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004116346	A1	20040617
APPLICATION INFO.:	US 2003-612885	A1	20030703 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-393361P	20020703 (60)
	US 2002-393360P	20020703 (60)
	US 2002-394110P	20020703 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	LUMEN INTELLECTUAL PROPERTY SERVICES, INC., 2345 YALE STREET, 2ND FLOOR, PALO ALTO, CA, 94306	
NUMBER OF CLAIMS:	22	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	17 Drawing Page(s)	
LINE COUNT:	2000	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 3 OF 3 IFIPAT COPYRIGHT 2005 IFI on STN

AN 10609123 IFIPAT;IFIUDB;IFICDB Full-text  
TITLE: AFFINITY SMALL MOLECULES FOR THE EPO RECEPTOR  
INVENTOR(S): Naranda; Tatjana, Mountain View, CA, US  
Olsson; Lennart, Orinda, CA, US  
PATENT ASSIGNEE(S): Unassigned  
AGENT: LUMEN INTELLECTUAL PROPERTY SERVICES, INC., 2345 YALE STREET, 2ND FLOOR, PALO ALTO, CA, 94306, US

	NUMBER	PK	DATE
PATENT INFORMATION:	US 2004116346	A1	20040617
APPLICATION INFORMATION:	US 2003-612885		20030703

	NUMBER	DATE
PRIORITY APPLN. INFO.:	US 2002-393360P	20020703 (Provisional)
	US 2002-393361P	20020703 (Provisional)
	US 2002-394110P	20020703 (Provisional)
FAMILY INFORMATION:	US 2004116346	20040617
DOCUMENT TYPE:	Utility	
	Patent Application - First Publication	
FILE SEGMENT:	CHEMICAL APPLICATION	

NUMBER OF CLAIMS: 22 17 Figure(s).  
DESCRIPTION OF FIGURES:

FIG. 1 shows a graphical representation of a competitive binding assay that may be used to identify non-peptide EPO-R binding molecules.  
FIG. 2 shows a summary of the methods used for assessment of nonpeptide EPO-R modulators biological activity.  
FIG. 3 shows a graph of the proliferative effect of non-peptide EPO-R modulator



E5 in TF-1 cells.

FIG. 4 shows non-peptide EPO-R modulator E5 activation of EPO-R in UT-7 cells.

FIG. 5 shows the effect of non-peptide EPO-R modulator E5A24 on erythroid colony formation in methylcellulose. Fetal liver cells were isolated and seeded in the presence of compound. The colonies were counted on day 3.

FIG. 6 shows the effect of non-peptide EPO-R modulator E5 on erythroid colony formation in methylcellulose. Human bone marrow cells were isolated and seeded in the presence of compound. The colonies were counted on day 14.

FIG. 7 shows the cooperation between non-peptide EPO-R modulator E5 and EPO on erythroid colony formation in methylcellulose. CD34+cells were isolated and seeded in the presence of compound. The colonies were counted on day 14.

FIG. 8 shows cooperation between non-peptide EPO-R modulator EM5A24 and EPO on erythroid colony formation in methylcellulose. Human bone marrow cells were isolated and seeded in the presence of compound. The colonies were counted on day 14.

FIG. 9 shows the effect of non-peptide EPO-R modulator E5 on hematocrit levels in carboplatin-treated 8 week old C57BL mice. The compound was given i.p.

FIG. 10 shows the cooperative effect between non-peptide EPO-R modulator E6 and EPO on hematocrit levels in carboplatin-treated 8 week old C57BL mice. The compound was given i.p.

FIG. 11 shows the effect of non-peptide EPO-R modulator E6 on hematocrit levels in carboplatin-treated 8 week old C57BL mice. The compound was given orally.

FIG. 12 shows the effect of non-peptide EPO-R modulator E5 on reticulocyte levels in normal mice. The compound was given i.p.

FIG. 13 shows the effect of non-peptide EPO-R modulators E5A24 and EM5 on up-regulation of Bcl-xL expression in TF-1 cells.

FIG. 14 shows the effect of non-peptide EPO-R modulators E5A24 and EM5 on up-regulation of Bcl-xL expression in UT-7 cells.

FIG. 15 shows the effect of non-peptide EPO-R modulators E5A24 and EM5 on increased cell viability of P19 cells after the withdrawal of serum.

FIG. 16 shows the effect of non-peptide EPO-R modulators E5A24 and E5A29 on increased cell survival of cortical neurons after glutamate challenge.

FIG. 17 shows a summary of activity for non-peptide EPO-R modulators.

=> DIS HIST

(FILE 'HOME' ENTERED AT 12:11:04 ON 17 FEB 2005)

FILE 'REGISTRY' ENTERED AT 12:11:08 ON 17 FEB 2005

L1 STRUCTURE UPLOADED

L2 50 S L1 SAM

L3 2760 S L1 FUL

FILE 'HCAPLUS' ENTERED AT 12:11:46 ON 17 FEB 2005

L4 215 S L3

L5 1 L4 AND (EPOR OR (ERYTHROPOIETIN (W) RECEPTOR))

L6 1 L4 AND (EPO OR ERYTHROPOIETIN)

L7 1 L5 AND L6

L8 1 L4 AND (EPO (W) R)

L9 1 L8 AND L7

L10 0 L4 AND CYTOKINE

L11 0 L4 AND ERB

L12 0 L4 AND EBP

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 12:18:46 ON 17 FEB 2005  
E DIAZOLOHEXAHYDROQUINOLINE

SEA E3

-----

1 FILE IFIPAT

2 FILE USPATFULL

L13

QUE DIAZOLOHEXAHYDROQUINOLINE/BI

-----

FILE 'USPATFULL, IFIPAT' ENTERED AT 12:20:28 ON 17 FEB 2005

L14

3 S L13

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

7.03

200.84

STN INTERNATIONAL LOGOFF AT 12:21:18 ON 17 FEB 2005